LINOIS, South RANKLIN COUNTY ZEIGLER [37.90, -89.05] 07/01/14 15:35 CST 07/01/14 15:35 CST ACKSON COUNTY MURPHYSBORO [37.77, -89.33], CARBONDALE [37.72, -89.25]	0 0		
07/01/14 15:35 CST 07/01/14 15:35 CST			
07/01/14 15:35 CST 07/01/14 15:35 CST			
	0	Hail (1.00 in)	
ACKSON COUNTY MURPHYSBORO [37.77, -89.33], CARBONDALE [37.72, -89.2		Source: Emergency Manager	
	 22]		
07/01/14 15:35 CST	3K	Thunderstorm Wind (EG 52 kt)	
07/01/14 15:40 CST	0	Source: Law Enforcement	
few trees were down between Carbondale and Murphysboro.			
NION COUNTY JONESBORO [37.45, -89.27], DONGOLA [37.37, -89.17]			
07/01/14 16:05 CST	10K	Thunderstorm Wind (EG 61 kt)	
07/01/14 16:25 CST	0	Source: Law Enforcement	
umerous trees were blown down across the county. At Jonesboro, the top of a pine tr	ee landed in a pool.		
OHNSON COUNTY BUNCOMBE [37.47, -88.97]			
07/01/14 16:25 CST	3K	Thunderstorm Wind (EG 52 kt)	
07/01/14 16:25 CST	0	Source: Law Enforcement	
few trees were blown down.			
OPE COUNTY GOLCONDA [37.37, -88.48], 3.0 NNE GOLCONDA [37.41, -88.46]			
07/01/14 17:00 CST			
	4K	Thunderstorm Wind (EG 52 kt)	
07/01/14 17:00 CST few trees were down in Golconda, as well as northeast of town.	0	Source: Law Enforcement	
07/01/14 17:00 CST few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhallowst-southwesterly deep layer wind shear was sufficient for organized and sustain stability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. MAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST	0 destabilized the region and the storms, especially in the clusters, which then the storms and the storms are storms.	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt)	
07/01/14 17:00 CST few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhativest-southwesterly deep layer wind shear was sufficient for organized and sustain istability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. MAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54]	0 destabilized the region a uncing thunderstorm dev ned storms, especially in nto clusters, which then	Source: Law Enforcement ahead of the storms. A elopment. I the presence of strong merged into a squall line with	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating sid-level shortwave trough moved southeast from the upper Missouri Valley, enha fest-southwesterly deep layer wind shear was sufficient for organized and sustain stability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. VAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST wind gust to 64 mph was measured with a portable anemometer several miles northmover lines were down in a concentrated area along Illinois Route 15.	0 destabilized the region and the storms, especially into clusters, which then a 10K	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhalest-southwesterly deep layer wind shear was sufficient for organized and sustain istability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. VAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST wind gust to 64 mph was measured with a portable anemometer several miles northower lines were down in a concentrated area along Illinois Route 15.	destabilized the region and the storms, especially in the clusters, which then the storms of the sto	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter It of Fairfield, trees were uprooted and	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating sid-level shortwave trough moved southeast from the upper Missouri Valley, enha fest-southwesterly deep layer wind shear was sufficient for organized and sustain stability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. VAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST wind gust to 64 mph was measured with a portable anemometer several miles northmover lines were down in a concentrated area along Illinois Route 15.	0 destabilized the region and the storms, especially into clusters, which then a 10K	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating sid-level shortwave trough moved southeast from the upper Missouri Valley, enhaltest-southwesterly deep layer wind shear was sufficient for organized and sustain instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. IAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST wind gust to 64 mph was measured with a portable anemometer several miles northower lines were down in a concentrated area along Illinois Route 15.	destabilized the region and ancing thunderstorm development of the region of the regio	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter It of Fairfield, trees were uprooted and Hail (1.00 in)	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhausest-southwesterly deep layer wind shear was sufficient for organized and sustain instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. VAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST wind gust to 64 mph was measured with a portable anemometer several miles northed by the several miles were down in a concentrated area along Illinois Route 15. VAYNE COUNTY KEENESVILLE [38.40, -88.65] 07/07/14 14:55 CST 07/07/14 14:55 CST	destabilized the region and ancing thunderstorm develored storms, especially into clusters, which then a local storms of the sto	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter at of Fairfield, trees were uprooted and Hail (1.00 in) Source: Trained Spotter	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhaust-southwesterly deep layer wind shear was sufficient for organized and sustain estability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in exally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. VAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST Wind gust to 64 mph was measured with a portable anemometer several miles norther ower lines were down in a concentrated area along Illinois Route 15. VAYNE COUNTY KEENESVILLE [38.40, -88.65] 07/07/14 14:55 CST 07/07/14 14:55 CST	destabilized the region and ancing thunderstorm development of the region of the regio	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter It of Fairfield, trees were uprooted and Hail (1.00 in)	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhaust-southwesterly deep layer wind shear was sufficient for organized and sustain instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. MAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST Wind gust to 64 mph was measured with a portable anemometer several miles norther ower lines were down in a concentrated area along Illinois Route 15. MAYNE COUNTY KEENESVILLE [38.40, -88.65] 07/07/14 14:55 CST 07/07/14 14:55 CST	destabilized the region and ancing thunderstorm develored storms, especially into clusters, which then a substantial to the sub	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter Int of Fairfield, trees were uprooted and Hail (1.00 in) Source: Trained Spotter Thunderstorm Wind (EG 52 kt)	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhaust fest-southwesterly deep layer wind shear was sufficient for organized and sustain instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in locally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. MAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST wind gust to 64 mph was measured with a portable anemometer several miles norther over lines were down in a concentrated area along Illinois Route 15. MAYNE COUNTY KEENESVILLE [38.40, -88.65] 07/07/14 14:55 CST 07/07/14 15:01 CST 07/07/14 15:01 CST	destabilized the region and ancing thunderstorm develored storms, especially into clusters, which then a substantial to the sub	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter Int of Fairfield, trees were uprooted and Hail (1.00 in) Source: Trained Spotter Thunderstorm Wind (EG 52 kt)	
few trees were down in Golconda, as well as northeast of town. hunderstorms increased in strength and coverage over Missouri as solar heating hid-level shortwave trough moved southeast from the upper Missouri Valley, enhausest-southwesterly deep layer wind shear was sufficient for organized and sustain instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved in ocally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. MAYNE COUNTY KEENESVILLE [38.40, -88.65], 0.6 WSW SIMS [38.37, -88.54] 07/07/14 14:45 CST 07/07/14 14:52 CST Wind gust to 64 mph was measured with a portable anemometer several miles northed by the several miles were down in a concentrated area along Illinois Route 15. MAYNE COUNTY KEENESVILLE [38.40, -88.65] 07/07/14 14:55 CST 07/07/14 15:50 CST 07/07/14 15:01 CST	destabilized the region and ancing thunderstorm develored storms, especially into clusters, which then a substantial to the sub	Source: Law Enforcement ahead of the storms. A relopment. In the presence of strong merged into a squall line with Thunderstorm Wind (MG 56 kt) Source: Trained Spotter Int of Fairfield, trees were uprooted and Hail (1.00 in) Source: Trained Spotter Thunderstorm Wind (EG 52 kt)	

car.

Page 1 of 6 Printed on: 11/27/2014

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dmg A cluster of thunderstorms developed in a very unstable air mass over east central Missouri and southern Illinois. The storms developed south of a west-southwest to east-northeast oriented boundary, where mixed-layer capes were around 3500 j/kg. Unidirectional westerly flow yielded around 20 knots of deep-layer wind shear, which was sufficient for severe multicells given the strong instability. The storms increased in coverage and intensity as they moved east along the Interstate 64 corridor of southern Illinois. The storms gained sufficient organization to establish a cold pool and associated gust front, which resulted in pockets of wind damage. ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.7 SW THEBES JCT [37.19, -89.46], 0.6 S THEBES JCT [37.19, -89.45], 0.5 ESE THEBES [37.22, -89.46] 07/12/14 00:30 CST 0 Flood (due to Heavy Rain) 07/16/14 01:30 CST n Source: River/Stream Gage Minor flooding occurred along the Mississippi River near Thebes. Some low-lying fields and woodlands near the river were inundated. Very heavy rainfall in the upper Mississippi Valley during the first half of July caused a rise on the Mississippi River that travelled as far south as Cape Girardeau and Thebes. Only minor flooding occurred around mid-month. WHITE COUNTY --- CARMI [38.08, -88.17] 07/23/14 05:00 CST 0 Heavy Rain 07/23/14 08:30 CST 0 Source: Trained Spotter A trained spotter measured 1.37 inches of rain in early morning thunderstorms. EDWARDS COUNTY --- ALBION [38.38, -88.05] 07/23/14 05:45 CST 0 Heavy Rain 07/23/14 08:00 CST 0 Source: Trained Spotter A trained spotter measured 1.50 inches of rain in 30 minutes. Storm total rainfall was 2.86 inches. HAMILTON COUNTY --- MC LEANSBORO [38.10, -88.53] 07/23/14 07:15 CST 0 Hail (0.75 in) 07/23/14 07:15 CST 0 Source: Public JOHNSON COUNTY --- BELKNAP [37.32, -88.93] 07/23/14 10:45 CST 6K Thunderstorm Wind (EG 56 kt) 07/23/14 10:45 CST n Source: Emergency Manager Several large tree limbs were blown down in a small area about one block wide. One of the large limbs struck a house, causing minor to moderate damage. A complex of thunderstorms propagated southwestward across southern Illinois. The storms produced heavy rain, gusty winds, and hail up to dime size. The storms were initiated by a cold front that trailed southwest across the Ohio Valley to the Ozark Mountains of northern Arkansas. (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC 07/27/14 12:00 CST 0 Heat 07/27/14 18:00 CST 0 Across the Ohio River counties of extreme southern Illinois, the combination of temperatures in the lower to middle 90's and extreme humidity resulted in heat index values in the 105 to 111 degree range. One of the highest afternoon heat index readings included 111 degrees at the Cairo airport. Southwest winds immediately ahead of a cold front approaching the Lower Ohio Valley brought high levels of heat and humidity.

Page 2 of 6 Printed on: 11/27/2014

0

0

Heavy Rain

Source: Trained Spotter

07/01/14 16:20 CST

07/01/14 18:05 CST

INDIANA, Southwest

VANDERBURGH COUNTY --- 6.0 W EVANSVILLE [37.98, -87.66]

A trained spotter measured 1.90 inches of rain in one hour and 45 minutes.

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details		
VANDERBURGH COUNTY EVANSVILLE [37.98	3, -87.55]					
	07/01/14 17:00 CST		0	Heavy Rain		
	07/01/14 18:00 CST		0	Source: Trained Spotter		
A trained spotter measured 1.70 inches of rain in one hour on the southeast side of the city.						

Clusters of thunderstorms merged into a squall line across the Lower Ohio Valley. The storms were enhanced by a mid-level shortwave trough moving southeast from the upper Missouri Valley. Some of the storms produced very heavy rain.

VANDERBURGH COUNTY EVANSVILLE [37.98, -87.55], 3.0 SE EVANSVILLE [37.95, -87.51]		
07/07/14 16:05 CST	15K	Thunderstorm Wind (EG 52 kt)

07/07/14 16:05 CST 0 Source: Trained Spotter

Small to medium size tree branches and some power lines were down across the Evansville area. Numerous large tree limbs were blown down on the southeast side of Evansville.

A cluster of thunderstorms developed in a very unstable air mass over east central Missouri and southern Illinois. The storms developed south of a west-southwest to east-northeast oriented boundary, where mixed-layer capes were around 3500 j/kg. Unidirectional westerly flow yielded around 20 knots of deep-layer wind shear, which was sufficient for severe multicells given the strong instability. The storms increased in coverage and intensity as they moved east along the Interstate 64 corridor of southern Illinois. The storms gained sufficient organization to establish a cold pool and associated gust front, which resulted in pockets of strong winds in southwest Indiana.

GIBSON COUNTY OAKLAND CITY [38.33, -87.35]				
07/08/14 03:20 CST	3K	Thunderstorm Wind (EG 52 kt)		
07/08/14 03:20 CST	0	Source: Trained Spotter		

A large tree limb was blown down. A wooden swing set was destroyed.

A short line of thunderstorms bowed outward as it moved quickly east across southwest Indiana. The storms occurred along a cold front that trailed south along the Wabash Valley from low pressure near Chicago.

ı		NITI	ICKY	Cauth	nwest
ı	\sim	N 1 C	JUN I.	. อบนแ	iwesi

HICKMAN COUNTY 2.0 SW CLINTON [36	6.65, -89.01], 3.0 E CLINTON [36.67, -88.9	3]		
	07/01/14 17:25 CST	5K	Thunderstorm Wind (EG 56 kt)	
	07/01/14 17:30 CST	0	Source: Broadcast Media	
Trees were down along Highway 123.				
GRAVES COUNTY 2.0 N FANCY FARM [36.83, -88.78], 2.0 ENE FANCY FARM [36.	81, -88.75]		
	07/01/14 17:27 CST	8K	Thunderstorm Wind (EG 56 kt)	
	07/01/14 17:35 CST	0	Source: Utility Company	
A few trees and power lines were blown dow	n in the Fancy Farm area near Highway 1.	21.		
MARSHALL COUNTY BREWERS [36.77,	-88.43]			
	07/01/14 17:50 CST	10K	Thunderstorm Wind (EG 52 kt)	
	07/01/14 17:50 CST	0	Source: Utility Company	

A few trees and power lines were blown down.

Thunderstorms increased in strength and coverage over Missouri as solar heating destabilized the region ahead of the storms. A mid-level shortwave trough moved southeast from the upper Missouri Valley, enhancing thunderstorm development.

West-southwesterly deep layer wind shear was sufficient for organized and sustained storms, especially in the presence of strong instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved into clusters, which then merged into a squall line with locally damaging winds across the Mid-Mississippi and Lower Ohio Valleys.

HENDEDSON COUNTY HENDEDSON ADDT	127 00 07 601	1 0 C HENDEDSON	727 02 07 501
HENDERSON COUNTY HENDERSON ARPT	[37.00, -07.00],	1.0 S HENDERSON	[31.02, -01.30]

07/07/14 16:10 CST 2K Thunderstorm Wind (MG 53 kt)

07/07/14 16:15 CST 0 Source: AWOS

Page 3 of 6 Printed on: 11/27/2014

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dma Four-inch diameter tree limbs were blown down on the south side of Henderson. A wind gust to 61 mph was measured at the Henderson city-county airport. A trained spotter estimated a wind gust to 60 mph in Henderson, where small tree limbs were down. HENDERSON COUNTY --- 5.0 ENE HENDERSON [37.86, -87.50] 40K 07/07/14 16:15 CST Thunderstorm Wind (EG 56 kt) 07/07/14 16:15 CST 0 Source: Trained Spotter Roof damage occurred to two homes in northeast Henderson County. A two-foot diameter tree was down on one home. The roof was peeled off part of a second home. Numerous smaller trees and power lines were damaged. DAVIESS COUNTY --- OWENSBORO [37.77, -87.12], 1.2 SSW DOYLE [37.73, -87.08] Thunderstorm Wind (EG 52 kt) 07/07/14 16:35 CST 30K 07/07/14 16:40 CST 0 Source: Emergency Manager A large tree fell on a house, tearing a large hole in the wall. Large tree limbs were blown down. One of the limbs was blocking a road. Power lines were down. A utility pole was down across a road. A cluster of thunderstorms developed in a very unstable air mass over east central Missouri and southern Illinois. The storms developed south of a west-southwest to east-northeast oriented boundary, where mixed-layer capes were around 3500 j/kg. Unidirectional westerly flow yielded around 20 knots of deep-layer wind shear, which was sufficient for severe multicells given the strong instability. The storms increased in coverage and intensity as they moved east along the Interstate 64 corridor of southern Illinois. The storms gained sufficient organization to establish a cold pool and associated gust front, which resulted in pockets of wind damage as it crossed northwest Kentucky. (KY-Z009) CALLOWAY, (KY-Z012) TRIGG, (KY-Z017) CHRISTIAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD 07/25/14 00:00 CST 0 Drought 07/31/14 23:59 CST 0 Drought conditions that had started in central Kentucky earlier in the summer slowly spread west, encompassing parts of western Kentucky by late July. The area of moderate drought conditions extended from Murray to Hopkinsville and Elkton. July monthly rainfall totals were only 25 to 50 percent of normal in the drought area. Impacts of the drought were primarily agricultural. A report from Todd County indicated corn and early-planted soybean yields were projected to be reduced by about 50 percent. The same report from Todd County stated pastures were brown. During the latter half of July, high pressure in the upper levels of the atmosphere controlled much of the central part of the United States. This high produced dry and cool northwest winds over Kentucky for much of the month. (KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD 07/27/14 12:00 CST 0 Heat 07/27/14 18:00 CST n The combination of temperatures in the lower to middle 90's and extreme humidity resulted in heat index values in the 105 to 110 degree range. A few afternoon heat index readings included 109 degrees at Paducah and Princeton, and 107 at Madisonville. Southwest winds immediately ahead of a cold front approaching the Lower Ohio Valley brought high levels of heat and humidity. CHRISTIAN COUNTY --- OAK GROVE [36.67, -87.43] 07/27/14 18:50 CST 0 **Funnel Cloud** 07/27/14 18:50 CST O Source: Storm Chaser There were two reports of rotation and a funnel cloud, including one from a storm chaser and one from a trained spotter. TODD COUNTY --- TRENTON [36.72, -87.27] 07/27/14 18:50 CST Hail (0.88 in) 0 07/27/14 18:50 CST Source: Law Enforcement

A strong storm passed through the southern Pennyrile region.

PERRY COUNTY --- 4.0 WSW PERRYVILLE [37.70, -89.94], 3.1 ESE HIGHLAND [37.65, -89.85]

MISSOURI, Southeast

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/01/14 14:55 CST	,	30K	Thunderstorm Wind (EG 61 kt)
	07/01/14 15:10 CST		0	Source: Law Enforcement
Frees were blown down in the western part of the c		railers were overtur		
·				·
PERRY COUNTY 2.0 SW PERRYVILLE [37.70, -	89.90], HIGHLAND [37.67, 07/01/14 15:00 CST	-89.90]	0	Hail (1.75 in)
	07/01/14 15:08 CST		0	Hail (1.75 in) Source: Public
Some golf-ball size hailstones were observed. The		proximately dime si		Source. Public
BUTLER COUNTY POPLAR BLUFF [36.75, -90.	=		0	Thursdown Mad (MO 50 H)
	07/01/14 15:55 CST		0	Thunderstorm Wind (MG 52 kt)
	07/01/14 15:55 CST		0	Source: Emergency Manager
A wind gust to 60 mph was measured. A tree was b	lown down.			
RIPLEY COUNTY 3.0 S DONIPHAN [36.58, -90.8	_			
	07/01/14 16:00 CST		0	Hail (0.75 in)
	07/01/14 16:00 CST		0	Source: Trained Spotter
STODDARD COUNTY DUDLEY [36.78, -90.10]				
	07/01/14 16:05 CST		0	Heavy Rain
	07/01/14 16:25 CST		0	Source: Trained Spotter
A trained spotter measured 1.04 inches of rain in 20 BUTLER COUNTY POPLAR BLUFF [36.75, -90.			0	Heavy Rain
	07/01/14 17:15 CST		0	Source: Law Enforcement
Water was reported running across U.S. Highway 6	0/67 in the city of Poplar Bl	luff.		
BUTLER COUNTY QULIN [36.60, -90.27]				
	07/01/14 16:23 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/01/14 16:23 CST		0	Source: Emergency Manager
Power lines were down.				
STODDARD COUNTY BERNIE [36.68, -89.97]				
	07/01/14 16:34 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/01/14 16:34 CST		0	Source: Trained Spotter
A couple of trees were blown down. There was shirdown onto a roadway. A trained spotter estimated w		A swing set was bl	lown over and dest	royed. A large tree limb was blown
NEW MADRID COUNTY KEWANEE [36.67, -89.	=			
	07/01/14 16:55 CST		7K	Thunderstorm Wind (EG 61 kt)
	07/01/14 16:55 CST		0	Source: Broadcast Media
	07701711 10:00 001			
Several trees were blown down on the west side of				

CAPE GIRARDEAU COUNTY --- GULF JCT [37.27, -89.55], 1.6 SSE CAPE GIRARDEAU [37.28, -89.52], 4.3 ESE GULF JCT [37.25, -89.48], 4.6 ESE GULF JCT [37.23, -89.48]

West-southwesterly deep layer wind shear was sufficient for organized and sustained storms, especially in the presence of strong instability. Mixed layer capes were on the order of 3500 j/kg. The activity evolved into clusters, which then merged into a squall line with locally damaging winds across the Mid-Mississippi and Lower Ohio Valleys. Some of the storms produced torrential rainfall, estimated

up to 2 inches per hour.

Page 5 of 6 Printed on: 11/27/2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/08/14 16:30 CST		3K	Flood (due to Heavy Rain)
	07/19/14 05:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Mississippi facilities such as boat ramps and parks were	·	e low-lying fields	and woodlands nea	or the river were inundated. River access
Very heavy rainfall in the upper Mississippi south as Cape Girardeau and Thebes. Only		=	n the Mississippi l	River that travelled as far
CAPE GIRARDEAU COUNTY CAPE GIRA	ARDEAU [37.30, -89.53]			
	07/23/14 11:00 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/23/14 11:00 CST		0	Source: Unknown
Numerous tree limbs were blown down acros	ss the city of Cape Girardeau. One	large tree was do	own.	
STODDARD COUNTY PAXICO [36.95, -90				
	07/23/14 11:30 CST		30K	Thunderstorm Wind (EG 56 kt)
	07/23/14 11:45 CST		0	Source: Emergency Manager
Trees and power lines were blown down acro	oss northern and central parts of the	ne county, includin	g Dexter and Puxic	ю.
WAYNE COUNTY 5.0 N WAPPAPELLO [3	•			
	07/23/14 11:40 CST		2K	Thunderstorm Wind (EG 52 kt)
	07/23/14 11:40 CST		0	Source: Park/Forest Service
A park employee at Lake Wappapello State F	Park reported tree damage on the	northeast side of t	he lake.	
NEW MADRID COUNTY PORTAGEVILLE	= = = = = = = = = = = = = = = = = = = =			
	07/23/14 11:48 CST		0	Hail (0.75 in)
	07/23/14 11:48 CST		0	Source: County Official
STODDARD COUNTY 5.0 W BERNIE [36.	68, -90.06], BERNIE [36.68, -89.97	7]		
	07/23/14 11:55 CST		15K	Thunderstorm Wind (EG 56 kt)
	07/23/14 12:00 CST		0	Source: Trained Spotter
Tree limbs and roofs were damaged in the Bewere down and there were a few roofs with s	-	were down on the	south side of Bern	ie. Five miles west of Bernie, tree limbs
BUTLER COUNTY POPLAR BLUFF [36.7				
	07/23/14 12:15 CST		80K	Thunderstorm Wind (EG 61 kt)
	07/23/14 12:15 CST		0	Source: Emergency Manager
In Poplar Bluff, trees and power lines were bl	own down. Two trees landed on c	ars. A few roofs w	ere damaged in the	e city.
A complex of thunderstorms propagated so damage. The storms propagated along an i storms were initiated by a cold front that tr	nstability axis that extended fror	n north central A	rkansas into south	east Missouri. The
(MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO				
(= 1705) N = 1, (= 1705) BOTELIN, (07/27/14 12:00 CST		0 0	Heat

Along and south of a line from Doniphan to Poplar Bluff to Cape Girardeau, the combination of temperatures in the lower to middle 90's and extreme humidity resulted in heat index values in the 105 to 110 degree range. Southwest winds immediately ahead of a cold front approaching the Lower Ohio Valley brought high levels of heat and humidity.

07/27/14 18:00 CST

Page 6 of 6 Printed on: 11/27/2014